BRUHAT BENGALURU MAHANAGARA PALIKE

YELAHANKA ZONE

NAME OF WORK : CONSTRUCTION OF DRAIN AT KOTE BHEEDI NEAR VENUGOPAL SWAMY TEMPLE IN WARD NO.02 OF YELAHANKA SUB DIVISION

								Estimate Cost Rs.	20.00	Lakhs
Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.		Rate	Amount
1	KSRB 2-2.1 : Earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No.5/Item No. 2.3)KPWD S.R 2016-17									
	Near Venugopalswamy temple	Cum								
	Cross Roads		1	60.00	0.80	1.00	48.00			
			1	40.00	0.80	1.00	32.00			
						Total Qty	**80.00**		222.38	**17790.19**
	Basic Rate	189.00								
	AD-HOC 11%	20.79								
	Sub-Total	209.79								
	Area Weightage @ 6%	12.59								
	Total	**222.38**								
	KSRRB M200-24:- dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces no exceeding 0.02 Cum in volume and stock piling at designated locations and disposal of dismantled materials upto a lead of 1000 meters, stacking serviceable and unserviceable materials separately complete as per specifications. MORTH specifications. No. 202, (P.No. 138/ Item No. 18.47)									
	for Road	Cum								
	Opp Venugopalswamy temple		1	31.00	8.00	0.25	62.00			
	Cross Roads		1	50.00	3.50	0.25	43.75			
			1	45.00	3.80	0.25	42.75			
						Total Qty	**148.50**		918.92	**136460.30**
	Basic Rate	781.00								
	AD-HOC 11%	85.91								
	Sub-Total	866.91								
	Area Weightage @ 6%	52.01								
	Total	**918.92**								
	KSRB 2-1.1 : Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1 (a) / 2.3.1 (P.5/I.2.1)KPWD S.R 2016-17									
	for Road	Cum								
	Opp Venugopalswamy temple		1	31.00	8.00	0.15	37.20			
	Cross Roads		1	50.00	3.50	0.15	26.25			
			1	45.00	3.80	0.15	25.65			
						Total Qty	**89.10**		184.73	**16459.10**
	Basic Rate	157.00								
	AD-HOC 11%	17.27								

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	Sub-Total	174.27							
	Area Weightage @ 6%	10.46							
	Total	**184.73**							
4	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregate /sand/kaner/ Moorum KSRRB M100-1 Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications MORTH -100/ Chapter 1 (Page No.133/ Item No 17.1)								
		Cum							
			Qty Vide Item No.1+2+3				**317.60**	**111.00**	**35253.60**
	Average Weight of Earth 1.28 Tonne/Km								
	Basic Rate Lead Charges for 10.00 Kms (2.50X1.28X10.00)	32.00							
	Add loading and unloading Item No 17.1)	68.00							
	Sub-Total	100.00							
	AD-HOC 11%	11.00							
	Total	**111.00**							
5	KSRB 4-1.3: Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No.KBS 4.1, 4.2 (P.12/I.4.3)								
	for Drain	Cum							
	Cross Roads		1	60.00	0.80	0.15	7.20		
	2nd Cross Road		1	40.00	0.80	0.15	4.80		
	for Road								
	Opp Venugopalswamy temple		1	31.00	8.00	0.15	37.20		
	Cross Roads		1	50.00	3.50	0.15	26.25		
			1	45.00	3.80	0.15	25.65		
					Total Qty		**101.10**	5726.51	**578950.38**
	Basic Rate	4867.00							
	AD-HOC 11%	535.37							
	Sub-Total	5402.37							
	Area Weightage @ 6%	324.14							
	Total	**5726.51**							
	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC cement at 300kgs. with 20mm and down size granite metal coarse aggregates at 0.69cum and fine aggregates at 0.43cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No.1500, 1700, 2200. -do- Wall and bottom thickness 15cm (P.No.265 / It.No.37.59.2)								
	r Drain	Cum							
	ed		1	60.00	0.80	0.15	7.20		
			1	40.00	0.80	0.15	4.80		
	de wall		2	60.00	0.15	0.60	10.80		
			2	40.00	0.15	0.60	7.20		

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
					Total Qty		**30.00**	**12246.05**	**367381.58**
	Basic Rate	10408.00							
	AD-HOC 11%	1144.88							
	Sub-Total	11552.88							
	Area Weightage @ 6%	693.17							
	Total	**12246.05**							
7	KSRB 4.9.2:Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3-do-TMT Bars Fe 500 P.17/It.No.4.46.2 (rates effects from 01-07-2017)								
		tonne							
		50% of Qty Vide item No.4				in Qtl	15.000		
						in tonne	**1.500**	**71310.20**	**106965.29**
	Basic Rate	60607.00							
	AD-HOC 11%	6666.77							
	Sub-Total	67273.77							
	Area Weightage @ 6%	4036.43							
	Total	**71310.20**							
8	Providing and fixing **RCC precast Slabs of 0.10 m thick of CC 1:2:4 with 20 mm** and down size graded granite metal , machine mixed , including cost of all material , labour , HOM of Machinery , curing complete								
	covering slab	Sqm							
	Cross Roads		1	60.00	0.75		45.00		
			1	40.00	0.75		30.00		
					Total Qty		**75.00**	2100.00	**157500.00**
	Data Rate	**2100.00**							
9	KSRRB M600-6. Cement concrete pavement. Construction Un- reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 with 25mm and size graded granite metal , coarse and fine aggregate with superplastisiser @ 3lts conforming to IS9103-1999 Reaffirmed-2008, mixed in a concrete mixer of not less than 0.6cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved curing compound, finishing to lines and grades as per drawing complete as per specifications.(P.No.174 / It.No.22.6.2)								
	for Road	Cum							
	Opp Venugopalswamy temple		1	31.00	8.00	0.125	31.00		
	Cross Roads		1	50.00	3.50	0.125	21.88		
			1	45.00	3.80	0.125	21.38		
					Total Qty		**74.25**	6901.94	**512468.72**
	Basic Rate	5866.00							
	AD-HOC 11%	645.26							
	Sub-Total	6511.26							

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	Area Weightage @ 6%	390.68							
	Total	6901.94							
10	**Vaccum De-watering** with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator HOM of machinery Screed Vibratiry, Power Floater, blade and disc etc., with all lead and lift (P.177/ I.22.7)								
	for Road	Sqm							
	Opp Venugopalswamy temple		1	31.00	8.00		248.00		
	Cross Roads		1	50.00	3.50		175.00		
			1	45.00	3.80		171.00		
							594.00	105.89	**62901.04**
	Basic Rate	90.00							
	AD-HOC 11%	9.90							
	Sub-Total	99.90							
	Area Weightage @ 6%	5.99							
	Total	**105.89**							
11	Providing Groove cutting for width of 5mm to 10mm and depth 80mm-100mm including cost of cutting machine generator and HOM of machinery including cost of blade, coolant etc., including cleaning aof groove & providing sand and hot bitumen fillars and filler metal etc.,including cost of conveyance of all materials, labour,lead and lift charges and all the other incidental charges as per drawing and as per specifications, MORTH specification. (P.178/ I.22.8)								
		m		avg					
			14	3.50			49.00	135.31	6630.14
	Basic Rate	115.00							
	AD-HOC 11%	12.65							
	Sub-Total	127.65							
	Area Weightage @ 6%	7.66							
	Total	**135.31**							
	Miscellaneous and unforeseen charges	LS							
							Grand Total Amount		**2000000.00**

(Rupees Twenty Lakhs Only)

TECHNICALLY SANCTIONED FOR Rs. 20.00 lakhs
Rupees ..... Twenty Lakhs only
Under 10-1771- 2017-18
Registered as CE ( ) No. 99
Subject to conditions contained in
enclosed memo EE ( ) No. ..... /97
Dt. ..... Estimate A/ Sanctioned
CE/YNK/TS/611/17-18 ..... No.
Dated ..... 16.02.18 ..... Rs. 20.00.00
Executive Engineer

CERTIFICATE

The site has been inspected and the work is found to be necessary.
The rates adopted are as per PW,P IWTD SR of 2016-17 and data rate of Bangalore Circle.
The provisions were made in this estimate are necessary and adequate.
The area comes under the Bruhat Bengaluru Mahanagara Palike Limits.
This work is not repeated in any other programs or Grants

Assistant Engineer
Ward No.02

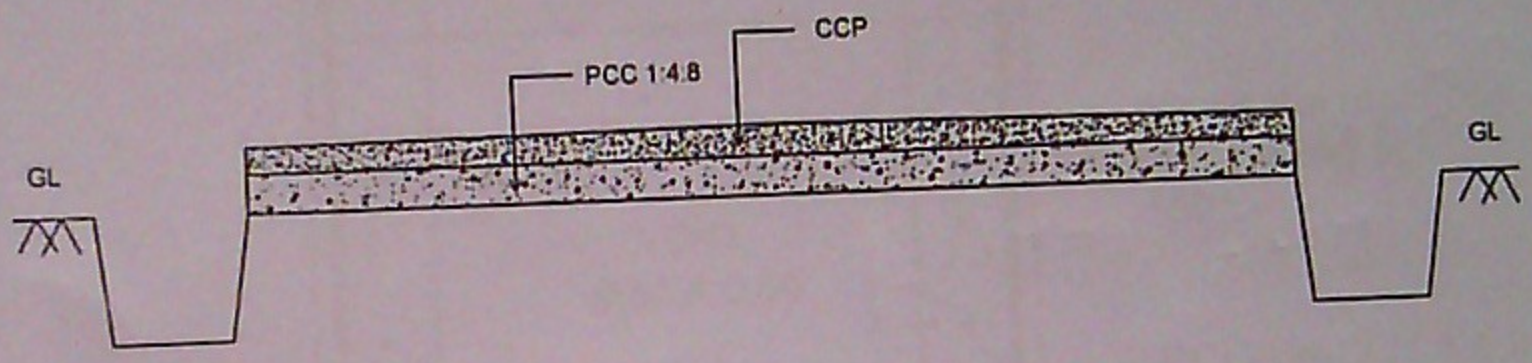
Executive Engineer
Yelahanka Division
B.B.M.P

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P

Administrative Approval
Accorded For ..Rs. 20-00 lakh
Head of A/C...10.1771
CER NO :...233.. Dt:08-02-18

TA CE (YNK)

NAME OF WORK : CONSTRUCTION OF DRAIN AT KOTE BHEEDI NEAR VENUGOPAL SWAMY TEMPLE IN WARD NO.02 OF YELAHANKA SUB DIVISION



TYPICAL CROSS SECTION OF CC ROAD

AE-02

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

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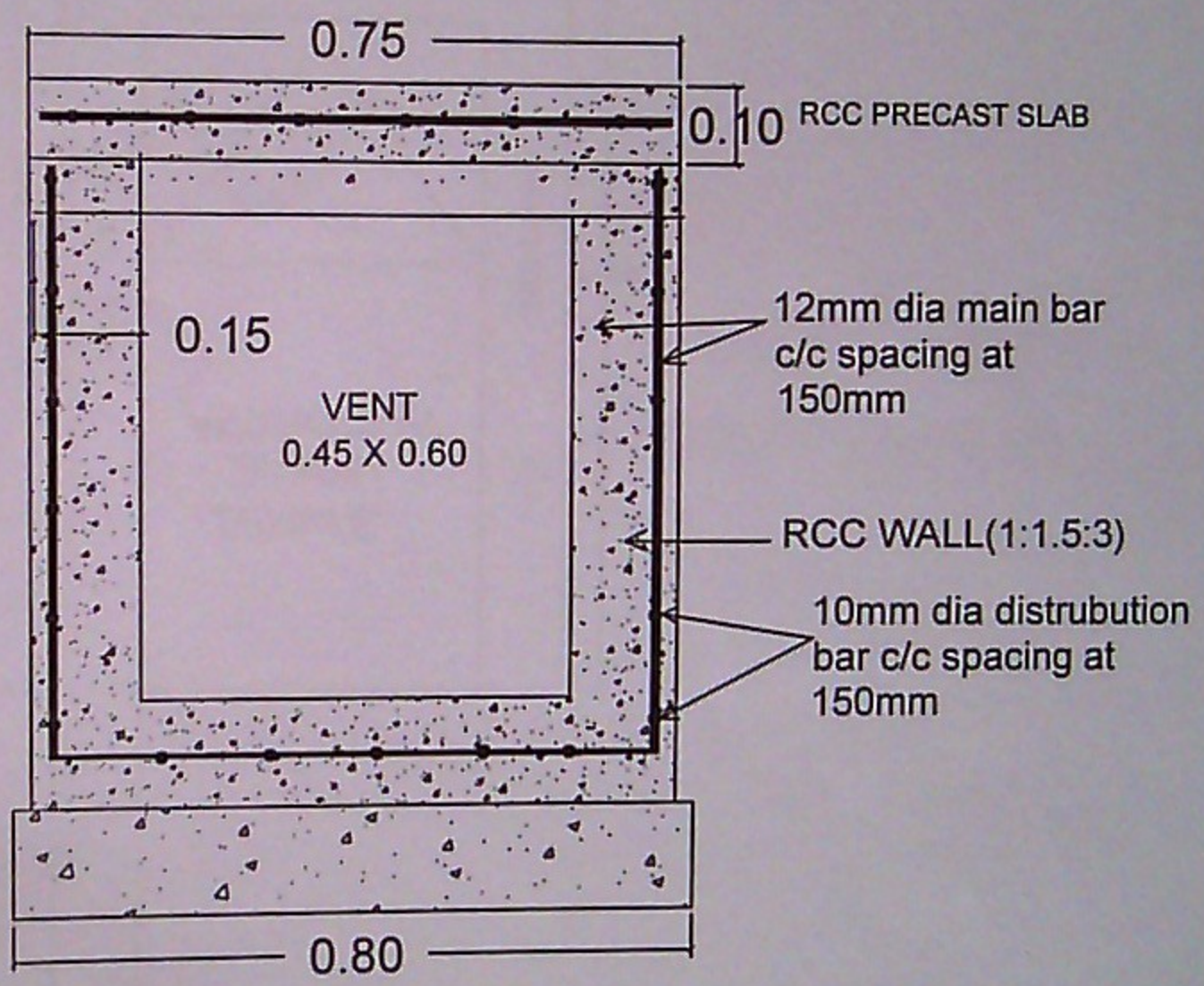

TYPICAL CROSS SECTION OF RCC DRAIN

AE-02

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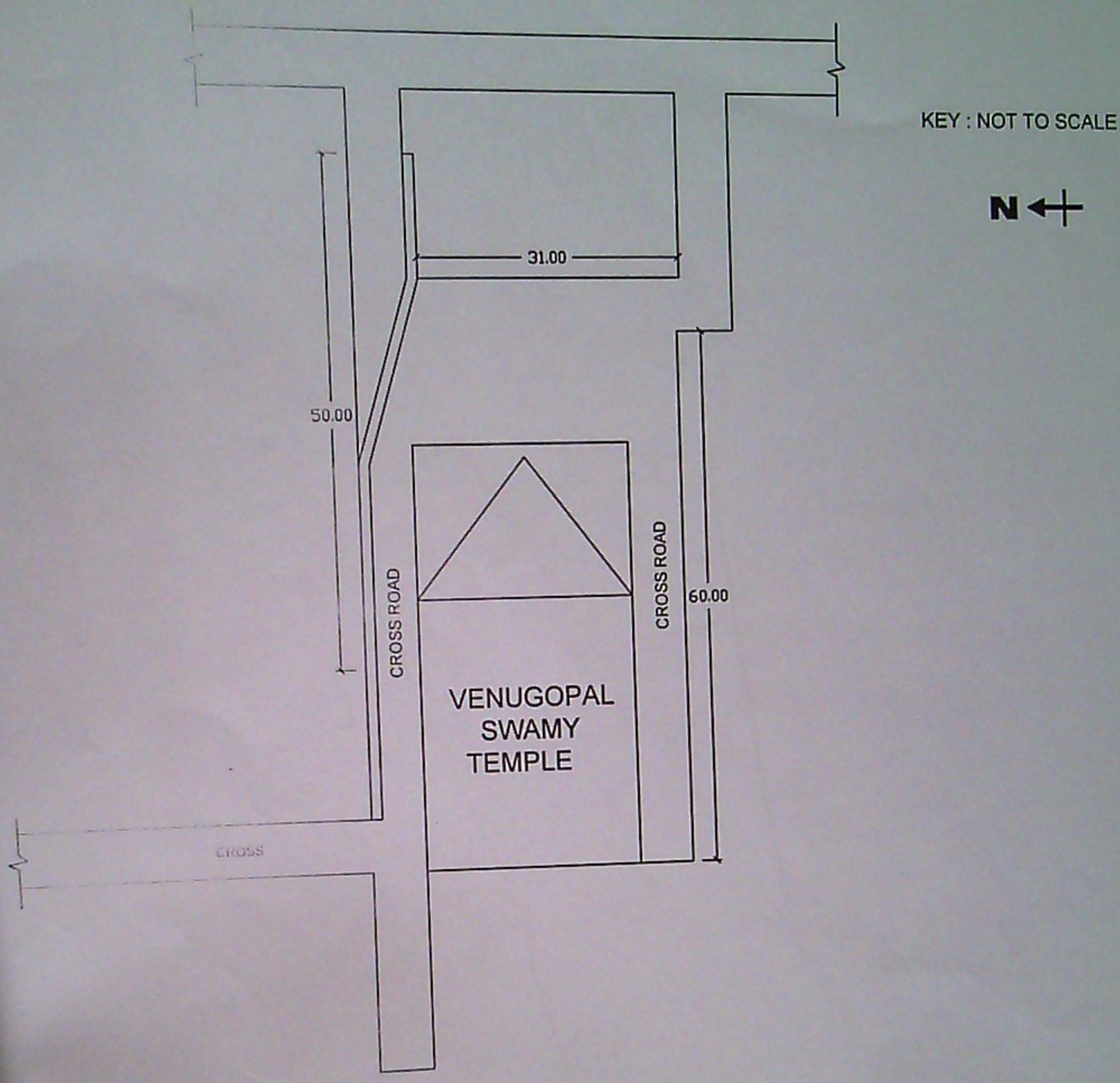

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- CC DRAIN

Assistant Engineer
Ward No 02
B.B.M.P

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P

YELAHANKA ZONE
WARD 2-CHOWDESHWARI WARD

©

Major Road

Intermediate Road

Minor Road

AE-02

Asst. Executive Engineer
Yelahanka Sub. Divison